

Notice of Allowability

Application No.

10/075,840

Examiner

John Juba, Jr.

Applicant(s)

ANDERSON, KEN

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to March 7, 2005.
2. ☒ The allowed claim(s) is/are 1-14, 36, 37 and 40-61.
3. ☒ The drawings filed on 13 February 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Reasons for Allowance

Claims 1 and 5 – 7 are allowable over the prior art for the reasons previously indicated with respect to claim 7. Claims 2 – 4, 8 – 14, 36, 37, and 40 – 61 are allowable over the prior art for the reasons previously indicated with respect to claims 2, 4, 8, 36, 37, 41, 42, 43, 50, 54, 55, and 56.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Notably, Horimai (U.S. Patent Appl. Pub. no. 2002/0114027 A1) discloses a method of recording holograms using polarized reference and object beams including the step of determining a recording endpoint in accordance with a detected level associated with the desired diffraction efficiency (para. [0279]). The examiner has marked-up Figures 55, 57, and 62 of the reference as they relate to this operation ("direct read-after-write") and placed them in file with the search notes (SRNT). Referring to Paragraphs [0249] – [0284], Horimai discloses that as recording proceeds, a portion of the reference beam is diffracted by a recorded hologram and subsequently measured. The path of the diffracted beam would be expected to correspond to one of the read-out paths discussed in connection with Figure 62. The measured component begins with a polarization state other than that used to record the hologram that produces the measured component. However, the measured component is associated with a reference beam other than that used to record the hologram that diffracts it. That is, two holograms are formed in separate regions, and the measured component is not a component of "the" reference beam (or object beam) used to record "the" hologram.

Further, whether the measured component is considered as being in the output arm of a reference beam, or in an output arm of an object beam, it does not constitute an "offset component" as would be understood in light of the present disclosure.

Minabe, et al (U.S. Patent number 6,512,085) disclose an arrangement for real-time monitoring of diffraction efficiency during hologram recording.

Stoll (U.S. Patent number 6,418,106) discloses a method of recording holograms using polarized object and reference beams, and discloses a structure for detecting the diffraction efficiency of the recorded hologram.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Post-allowance papers should be mailed to **Box Issue Fee**. Post-allowance papers may also be faxed to correspondence branch in PUBs. The fax number is (703) 308-5083. The **PUBs customer service** number is (703) 305-8497.

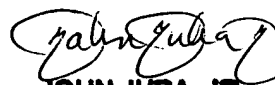
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Juba whose telephone number is (571) 272-2314. The examiner can normally be reached on Mon.-Fri. 9 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Drew Dunn whose number is (571) 272-2312 and who can be reached on Mon.- Thu., 9 - 5.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2800.


JOHN JUBA, JR.
PRIMARY EXAMINER
Art Unit 2872

May 11, 2005